

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference  P038154WO	<b>FOR FURTHER ACTION</b>  see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No.  PCT/GB2004/001374	International filing date (day/month/year)  25/03/2004	(Earliest) Priority Date (day/month/year)  28/03/2003
Applicant  AXORDIA LIMITED		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 8 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

## 1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b.  With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2.  **Certain claims were found unsearchable** (See Box II).

3.  **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regards to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. \_\_\_\_\_

as suggested by the applicant.

as selected by this Authority, because the applicant failed to suggest a figure.

as selected by this Authority, because this figure better characterizes the invention.

b.  none of the figures is to be published with the abstract.

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## Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:
  - a. type of material
    - a sequence listing
    - table(s) related to the sequence listing
  - b. format of material
    - in written format
    - in computer readable form
  - c. time of filing/furnishing
    - contained in the international application as filed
    - filed together with the international application in computer readable form
    - furnished subsequently to this Authority for the purpose of search
2.  In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Additional comments:

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## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:  

Although claims 1-4 and 17-21 encompass or are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2.  Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3.  Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-25 (all partially)

### Remark on Protest

The additional search fees were accompanied by the applicant's protest.  
 No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

Invention 1.: Claims 1-25 (all partially)

An RNAi molecule targeting Oct4 (fig.9); nucleic acids comprising and expressing it, and their use in the inhibition of cancer cell division.

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Inventions 2. to 8.: Claims 1-25 (all partially)

As for invention 1., but concerning respectively the target nucleic acid sequences outlined in figures 10 to 16.

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## INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB2004/001374

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N15/11 A61K31/713 A61K48/00 A61P35/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12N A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, WPI Data, PAJ, EMBASE

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/16620 A (ANDREWS PETER ; WALSH JAMES (GB); GOKHALE PAUL (GB); UNIV SHEFFIELD (G) 28 February 2002 (2002-02-28) the whole document -----	5-14
X	WO 03/012082 A (ANDREWS PETER ; AXORDIA LTD (GB); WALSH JAMES (GB); GOKHALE PAUL (GB)) 13 February 2003 (2003-02-13) the whole document -----	5-14
Y	----- -/-	1-4, 15-25

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

## ° Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but, cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

8 September 2004

Date of mailing of the international search report

12 01 2005

Name and mailing address of the ISA

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	PAN GUANG JIN ET AL: "Stem cell pluripotency and transcription factor Oct4." CELL RESEARCH, [Online] vol. 12, no. 5-6, December 2002 (2002-12), pages 321-329, XP002295356 ISSN: 1001-0602 Retrieved from the Internet: URL:www.cell-research.com/20024/0256-pdq.h tm]> the whole document -----	1-4, 17-25
Y	WO 02/08388 A (KRUIJER WIEBE ; UNIV GRONINGEN (NL); FORNIX BIOSCIENCES N V (NL)) 31 January 2002 (2002-01-31) the whole document -----	15,16
X	DATABASE MEDLINE [Online] US NATIONAL LIBRARY OF MEDICINE (NLM), BETHESDA, MD, US; March 2003 (2003-03), MENG GUO-LIANG ET AL: "[RNA interference in three ES cell lines from different mouse strains]" XP002295358 Database accession no. NLM12621548 abstract & SHENG WU HUA XUE YU SHENG WU WU LI XUE BAO ACTA BIOCHIMICA ET BIOPHYSICA SINICA. MAR 2003, vol. 35, no. 3, March 2003 (2003-03), pages 238-246, ISSN: 0582-9879 -----	5,8-11, 14
A	WO 00/22136 A (CANJI INC) 20 April 2000 (2000-04-20) cited in the application the whole document -----	14-16
A	DRAPER J S ET AL: "SURFACE ANTIGENS OF HUMAN EMBRYONIC STEM CELLS: CHANGES UPON DIFFERENTIATION IN CULTURE" JOURNAL OF ANATOMY, vol. 200, no. PART 3, March 2002 (2002-03), pages 249-258, XP001152867 ISSN: 0021-8782 cited in the application -----	
A	STEWART C L: "Oct-4, scene 1: the drama of mouse development" NATURE GENETICS, vol. 24, no. 4, April 2000 (2000-04), pages 328-330, XP002155943 ISSN: 1061-4036 -----	

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## INTERNATIONAL SEARCH REPORT

International Application No PCT/GB2004/001374
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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	ANDREWS PETER W: "From teratocarcinomas to embryonic stem cells" PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY OF LONDON B BIOLOGICAL SCIENCES, vol. 357, no. 1420, 29 April 2002 (2002-04-29), pages 405-417, XP002295357 ISSN: 0962-8436 cited in the application -----	
P,A	WO 03/080816 A (ANDREWS PETER ; DRAPER JON (GB); UNIV SHEFFIELD (GB)) 2 October 2003 (2003-10-02) cited in the application the whole document -----	14-16
P,X	VELKEY J MATTHEW ET AL: "Oct4 RNA interference induces trophectoderm differentiation in mouse embryonic stem cells." GENESIS THE JOURNAL OF GENETICS AND DEVELOPMENT, vol. 37, no. 1, September 2003 (2003-09), pages 18-24, XP008035096 ISSN: 1526-954X the whole document -----	5-11,13, 14
T	MATIN, M. ET AL.: "Specific knockdown of Oct4 and beta2-microglobulin expression by RNA interference in human embryonic stem cells and embryonic carcinoma cells" STEM CELLS, vol. 22, no. 5, September 2004 (2004-09), pages 659-668, XP008035005 -----	

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB2004/001374

Patent document cited in search report	Publication date	Patent family member(s)			Publication date
WO 0216620	A 28-02-2002	AU 8416001 A CA 2456008 A1 CN 1449448 T EP 1309706 A2 WO 0216620 A2 JP 2004522414 T US 2004053869 A1			04-03-2002 28-02-2002 15-10-2003 14-05-2003 28-02-2002 29-07-2004 18-03-2004
WO 03012082	A 13-02-2003	WO 03012082 A2			13-02-2003
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